

APPLICANT(S): MERON, Gavriel et al.  
SERIAL NO.: Not yet assigned  
FILED: Herewith  
Page 3

#### **AMENDMENTS TO THE CLAIMS**

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

- 1-23. (Cancelled)
24. (New) A method for displaying an in vivo image stream, said method comprising:
  - displaying a plurality of frames from the in vivo image stream substantially simultaneously;
  - assigning a score to each of the plurality of frames based on a predetermined criteria; and
  - positioning frames in a spatial order based on the score.
25. (New) The method according to claim 24 comprising displaying the in vivo image stream as a multi-frame image stream.
26. (New) The method according to claim 24 comprising adjusting a rate at which the multi-frame image stream is displayed based on the content of the frames.
27. (New) The method according to claim 24 wherein the predetermined criteria includes a degree of variation of the displayed images as compared to a reference image.
28. (New) The method according to claim 24 wherein the predetermined criteria includes a degree of color variation between the displayed images.
29. (New) The method according to claim 24 comprising.
30. (New) The method according to claim 29 comprising spatially positioning each of the frames displayed in an order based on the assigned scores.

APPLICANT(S): MERON, Gavriel et al.  
SERIAL NO.: Not yet assigned  
FILED: Herewith  
Page 4

31. (New) The method according to claim 29 comprising adjusting the size of at least one of the frames displayed based on the assigned scores.
32. (New) The method according to claim 24 wherein the in vivo image stream includes frames captured from more than one image sensor.
33. (New) The method according to claim 24 comprising displaying sensor data from a sensor other than an image sensor substantially simultaneously with the frames from the in vivo image stream.
34. (New) A system for displaying an in vivo image stream, the system comprising:
  - an in vivo imaging device to transmit an in vivo image stream;
  - a processor to generate a multi-frame image stream from the in vivo image stream, to assign a score to frames to be displayed substantially simultaneously based on a predetermined criteria and to determine a spatial position of frames in the multi-frame image stream based on the score; and
  - a display to display said multi-frame image stream.
35. (New) The system of claim 34 wherein the in vivo imaging device is an autonomous capsule.
36. (New) The system of claim 34 comprising a pH sensor.
37. (New) The system of claim 34 wherein the predetermined criteria includes a sensor reading.
38. (New) The system of claim 34 wherein the processor is to adjust the stream rate of the multi-frame image stream.
39. (New) A method for displaying an in vivo image stream, the method comprising:

APPLICANT(S): MERON, Gavriel et al.

SERIAL NO.: Not yet assigned

FILED: Herewith

Page 5

selecting a plurality of frames from an in vivo image stream;  
positioning the plurality of frames in an order based on a criteria of  
interest; and  
displaying the plurality of frames substantially simultaneously.

40. (New) The method according to claim 39 comprising comparing a frame from  
the plurality of frames to a reference image.

41. (New) The method according to claim 39 comprising assigning scores to the  
plurality of frames based on the criteria of interest.

42. (New) The method according to claim 39 comprising displaying the plurality  
of frames in different sizes substantially simultaneously.

43. (New) The method according to claim 39 wherein the criteria of interest is  
color variation between the plurality of frames.